

## INTERNATIONAL SEARCH REPORT

 International application No.  
 PCT/KR2004/002636

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 F24C 15/02**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 F24C 7/08, F24C 15/02, H05B 6/64, H05B 6/68

 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Korean Patent and application for inventions since 1975, Korean Utility Models and application for Utility Models since 1975  
 Japanese Utility Models and applications for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages        | Relevant to claim No.  |
|-----------|---|------------------------|
| X         | KR 2000-31906 A(SAMSUNG ELECTRONICS CO.,LTD.) 5 JUNE 2000<br>see the whole document       | 12, 13, 15, 16, 18, 20 |
| T         | US 6,664,523 B1(SAMSUNG ELECTRONICS CO.,LTD.) 16 DECEMBER 2003<br>see the whole document  | 1-20                   |
| A         | KR 2002-39498 A(LG ELECTRONICS CO.,LTD.) 27 MAY 2002<br>see the whole document            | 1-20                   |
| A         | KR 1991-0000717 Y(SAMSUNG ELECTRONICS CO.,LTD.) 8 FEBRUARY 1991<br>see the whole document | 1-20                   |
| A         | KR 1993-4034 U(GOLDSTAR CO.,LTD.) 26 FEBRUARY 1993<br>see the whole document              | 1-20                   |

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

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"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

31 JANUARY 2005 (31.01.2005)

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